

ABSTRACT

A method for producing optical films is provided which comprises the steps of: melt-extruding a thermoplastic resin into a film through a die of an extruder, pressing the melt-extruded thermoplastic resin layer together with a supporting layer between a cooling roll which is made of metal or ceramic and a rubber roll which is pressed against the cooling roll and rolled in the same circumferential direction, carrying the thermoplastic resin layer together with the supporting layer under taking off tension until the thermoplastic resin layer is cooled down, and peeling and separating the supporting layer from the thermoplastic resin layer to obtain a thermoplastic resin film.

Optical films are provided by a melt-extrusion method which have less optical surface defects such as die lines and gear marks and less fluctuations in film thickness and have uniform optical characteristics, which are useful as a material for various optical films used in liquid crystal displays, especially, a retardation film.